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NOTICE OF ALLOWANCE AND FEE(S) DUE

23696

7590

02/02/2011

QUALCOMM INCORPORATED 5775 MOREHOUSE DR. SAN DIEGO, CA 92121 EXAMINER

THIER, MICHAEL

ART UNIT PAPER NUMBER

2617 DATE MAILED: 02/02/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533,589	05/03/2005	James A Proctor JR.	080588	2286

TITLE OF INVENTION: WIRELESS LOCAL AREA NETWORK REPEATER WITH DETECTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/02/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

indicated unless correct maintenance fee notifica	ed below or directed otl tions.	herwise in Block 1, by (lock 1 for any change of address)	a) specifying a new corre	espondence address te: A certificate of e(s) Transmittal. Th	; and/o	r (b) indicating a sepa g can only be used for ficate cannot be used for	correspondence address as rate "FEE ADDRESS" for domestic mailings of the or any other accompanying
	par	ers. Each additiona	ıl papeı	, such as an assignmer iling or transmission.	nt or formal drawing, must		
QUALCOMM 5775 MOREHO SAN DIEGO, C		I h Sta ade trai	ereby certify that thes Postal Service v	nis Fee(e of Mailing or Transı s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	nission deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.	
							(Depositor's name)
							(Signature)
							(Date)
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10/533,589 TITLE OF INVENTION	05/03/2005 I: WIRELESS LOCAL A	AREA NETWORK REPE	James A Proctor JR. EATER WITH DETECTION	ON		080588	2286
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	05/02/2011
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	٦			
THIER, N	MICHAEL	2617	370-315000	J			
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Com	"Indication form ned. Use of a Customer A TO BE PRINTED ON tified below, no assignee	(1) the names of up to a agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent attlisted, no name will be THE PATENT (print or ty data will appear on the pT a substitute for filing an (B) RESIDENCE: (CIT	ively, le firm (having as a agent) and the namorneys or agents. If printed. pe) patent. If an assign assignment.	n members of uno nan	p to le is 3dentified below, the do	ocument has been filed for
Please check the appropr	riate assignee category or	r categories (will not be p	rinted on the patent):	Individual 🖵 C	orporat	ion or other private gro	up entity Government
	are submitted: No small entity discount p # of Copies	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	ns SMALL ENTITY state	us. See 37 CFR 1.27.	b. Applicant is no lo				
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Authorized Signature				Date			
Typed or printed name				Registration No.			
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10/533,589 05/03/2005		James A Proctor JR.	080588 2286		
23696 75	590 02/02/2011		EXAM	INER	
QUALCOMM IN	NCORPORATED	THIER, MICHAEL			
5775 MOREHOUSE DR.			ART UNIT PAPER NUMBER		
SAN DIEGO, CA	92121		2617		
			DATE MAILED: 02/02/201	1	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 501 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 501 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/533,589	PROCTOR ET AL.			
Notice of Allowability	Examiner	Art Unit			
	MICHAEL T. THIER	2617			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS			
1. \blacksquare This communication is responsive to <u>RCE filed 11/23/2010</u>).				
2. X The allowed claim(s) is/are 1-13,15-30,32-49,51-58 and 60	<u>9-66</u> .				
 Acknowledgment is made of a claim for foreign priority una)	been received. been received in Application No				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.				
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached					
1) hereto or 2) to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t					
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08),	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendn 8. Examiner's Stateme 9. Other	(PTO-413), e			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 11/23/2010 has been entered.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 11/23/2010 and 11/29/2010 have been entered and considered by the examiner.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Linda Gunderson on 1/18/2011.

Claim 1 is amended as follows:

1. (Currently Amended) A method for detecting the presence of a signal on one of at least two frequency channels in a frequency translating repeater for use in wireless local area network (WLAN) operating according to a protocol, the method comprising:

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establishing a first threshold associated with a first of the at least two frequency channels and a second threshold associated with a second of the at least two frequency channels;

monitoring the first and second frequency channels to detect the signal thereon in accordance with a first detection mode including the first threshold and the second threshold; and

qualifying, if <u>when</u> the signal is detected, to determine whether the detected signal is a wanted signal or an unwanted signal, wherein the qualifying further comprises

measuring an elapsed time associated with the detected signal, if the detected signal is the wanted signal;

refining at least one of a first or a second criteria based upon a threshold event, wherein the first criteria is refined if the threshold event is the elapsed time being greater than a minimum value and the second criteria is refined if the threshold event is the elapsed time being not greater than the minimum value.

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Allowable Subject Matter

4. Claims 1-13, 15-30, 32-49, 51-58, and 60-66 are allowed over the prior art of record.

5. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach a method system and non transitory computer readable medium for detecting the presence of a signal in a frequency translating repeater for use in a wireless network, comprising establishing a first and second threshold associated with a first and second frequency channel, monitoring the first and second frequency channels to detect a signal, qualifying, when a signal is detected, to determine whether the signal is wanted or not, measuring an elapsed time associated with the signal if it is a wanted signal, an refining one of a first or second criteria based upon a threshold event, wherein the first criteria is refined if the threshold event is the elapsed time grater than a min value, and the second criteria is refined if the threshold event is elapsed time being not greater than the min value, as substantially described in independent claims 1, 17, 18, 34, 42, 48, 53, 54, 57, 62, and 63. These limitations, in combination with the remaining limitations of claims 1, 17, 18, 34, 42, 48, 53, 54, 57, 62, and 63, are not taught nor suggested by the prior art of record. The remaining claims are dependent from these claims and are therefore allowed for the same reasons.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/533,589 Page 5

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL T. THIER whose telephone number is (571)272-2832. The examiner can normally be reached on Monday thru Friday 7:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on (571) 272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MICHAEL T THIER/ Primary Examiner, Art Unit 2617 1/18/2011